Intel in Education

Transforming Education for a World of Opportunity

A vibrant economy sustained by quality education, a skilled workforce, and innovation are goals shared by countries worldwide. Intel is helping to successfully turn this goal into reality, by supporting government efforts to improve the quality of their education systems with a holistic model for education transformation.

Intel works with governments, non-governmental organizations (NGOs), and local companies to improve education and develop students' 21st century skills by making learning more personal with eLearning solutions. These efforts are helping to sustain local communities and economies, while preparing the next generation for the global economy.
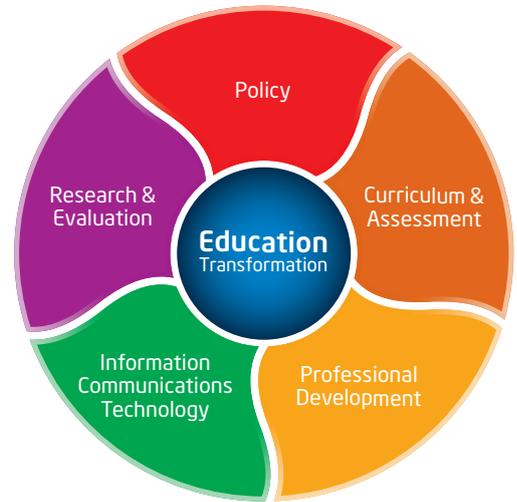
Intel is uniquely positioned to help countries due to the breadth of its technology, education programs, and partnerships—with over $1 billion invested in education in the last decade.

Education Transformation

Intel's model of education transformation is a systemic approach that supports best practices for achieving reform, and is based on educational research. The model combines advocacy for policy reform, curriculum standards and assessment, sustained professional development, information and communications technology, and support of research and evaluation to help countries create an effective approach to a more personalized 21st century education.

Research has shown that quality education enabled by education transformation has a direct impact on economic growth:

- Increases student competitiveness by developing 21st century skills, preparing them for success in the global economy

- Helps citizens develop lifelong learning skills, preparing them for current and future employment

- Creates economic development as local businesses benefit from a better-educated citizenry and workforce

- Creates more social cohesion and a better social climate as access to technology, the Internet, and digital content narrows the digital divide and creates opportunities

Policy

Curriculum & Assessment

Education Transformation

Professional Development

Information Communications Technology

Research & Evaluation

UNITED STATES

In the U.S., Intel is working at a national and local level with governments and school districts to improve the quality of education across the country.

- President Obama announced a 10-year, $200 million campaign to train math and science teachers as part of the STEM initiative: Change the Equation. Intel is one of the founding members of this coalition.
- Intel® Teach: >400,000 teachers from all 50 states trained
- San Diego School District launched a 5-year initiative to put laptops in the hands of >130,000 students

ARGENTINA

With the help of Intel, Argentina is promoting effective programs nationally and taking a leadership role in digital inclusion for Latin America.

- President Obama announced intention to bring 1:1 eLearning to 3 million students
- Intel® Teach: 100,000 teachers trained
- San Luis Province deployed free WiFi and Intel classmate PCs for primary-school students

Policy

Transformative policy—designed to ensure all students obtain the skills necessary to succeed in the knowledge economy—is systemic, aligned, action-oriented, scalable and sustainable, and provides financial resources. Information communications technology (ICT) empowers effective policy across curriculum and assessment, teacher professional development, and research and evaluation, and leads to economic and social development and innovation.

Intel engages with development agencies, multilateral organizations, and nonprofits to advocate for education excellence and access. Intel's global strategic alliances include: UNESCO Partnership for Education, the World Economic Forum Global Education Initiative, and World Bank Institute.

Professional Development

Professional development is critical for achieving education improvement. Teachers need tools and training to adjust their pedagogic approaches to take advantage of a transformed learning environment.

With over 10 million teachers trained in over 70 countries, the Intel® Teach Program trains teachers how to integrate technology into their lessons, promoting standards-aligned, problem- and project-based approaches to learning. Intel ensures Intel Teach is making a difference in classrooms by working with independent evaluators from around the world.

Intel holds its annual Educator Academy, where select government officials and educators from more than 45 countries attend workshops to drive improvement in mathematics and science education.

TURKEY

Turkey is laying the foundation for an educated workforce, economic growth, and a better quality of life.

- Digital devices and broadband provided to 620,000 classrooms, serving 15 million students
- 125,000 teachers trained by Intel® Teach

Information Communications Technology (ICT)

ICT is an essential foundation to empower education transformation, providing the tools needed to enhance teaching and learning, and support student-centered learning environments. Intel-based laptops, netbooks, desktops, and servers are key components of successful learning environments worldwide.

- **One-to One (1:1) eLearning** provides each student with a dedicated laptop that serves as a personal teaching and learning tool. Used throughout the day for many educational tasks and subjects, the laptop maximizes the education value of the technology integration.

- **Classroom eLearning** allows teachers to move beyond technology skills and use PCs to enhance learning across the curriculum. This can be accomplished through PCs stationed at the back of each classroom, or through computers on wheels (COWs), mobile PC carts that are shared by different classrooms.

- **PC labs** are frequently used to offer technology access when resources are severely constrained. While PC labs provide some exposure to technology, they limit teachers' ability to incorporate technology into the curriculum, and often are used only to teach computer literacy.

Using technology requires much more than simply putting computers in the classroom—it requires a solution. Intel works to deliver holistic education solutions through its extensive research in education; development of purpose-built education designs; a robust software, hardware, and content education ecosystem; and a network of solution providers. The Intel® Learning Series exemplifies this model—bringing together a strong ecosystem to deliver a complete solution.

Curriculum Standards and Assessment

Curriculum standards must be adapted to ensure students learn the critical skills and knowledge to succeed in the global economy, and must be coupled with effective assessment approaches. ICT supports curriculum standards by enabling eLearning environments with rich digital media and powerful tools.

Intel is actively engaged in improving curriculum standards and assessment with: Assessment and Teaching of 21st Century Skills (ATC21S), International Society for Technology in Education (ISTE), London Grid for Learning Trust, UNESCO ICT-Competency Standards for Teachers Project, Partnership for 21st Century Framework, and Achieve "Common Core Standards" Initiative.

skoool™ technology is an Intel curriculum content program supporting mathematics and science in 30 countries with over 5 million users annually. Through collaboration with education ministries and expert teachers, skoool delivers relevant, localized, and curriculum-aligned content to students.

Research and Evaluation

Research can provide important information to governments and other stakeholders as they define their education reform programs. Education transformation plans should include well-defined metrics of success and program evaluation from the very start to measure impact. Program data can then be used to guide any adjustments that need to occur.

Intel conducts extensive research and evaluation globally, ensuring that its programs and technology best meet the needs of students, teachers, and administrators.

Working Together for Education Excellence

Intel's model of education transformation helps governments improve the quality of their education systems, leading to economic and social opportunities for its citizens. Contact your Intel representative, and let's work together on developing an education program for your school or country.

Learn more about Intel education programs, technologies, and resources at: **www.intel.com/education**.

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